



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,231	11/06/2001	Jim Henderson	9601.00	5468
26889	7590	10/07/2005	EXAMINER	
MICHAEL CHAN NCR CORPORATION 1700 SOUTH PATTERSON BLVD DAYTON, OH 45479-0001			SINGH, SATWANT K	
			ART UNIT	PAPER NUMBER
			2626	

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/992,231	HENDERSON ET AL.	
	Examiner	Art Unit	
	Satwant K. Singh	2626	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/25/02, 2/11/03</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 6-8, and 11-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Chang et al. (US 2002/0083121).
3. Regarding Claim 1, Chang et al disclose a printer module comprising: a print engine (Figs. 9A-B print engine); a wireless receiver for receiving data from a remote source (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]); and a microcontroller for controlling the print engine to print data associated with the remote source (output controller 120) (page 5, paragraph [0062]).
4. Regarding Claim 2, Chang et al disclose a method, wherein the wireless receiver comprises a wireless transceiver including means for confirming printing to the remote source (Fig. 8F).
5. Regarding Claim 3, Chang et al disclose a module, further comprising a coupler for directing data received from the wireless receiver to the microcontroller (output manager) (page 5, paragraph [0062]).

Art Unit: 2626

6. Regarding Claim 4, Chang et al disclose a module, wherein the coupler includes (i) means connectable to a fixed channel, and (ii) means for directing data received from the wireless receiver and/or from the fixed channel to the microcontroller (Figs 2 A-B) (Radio adapter and IR adapters).

7. Regarding Claim 6, Chang et al disclose a module, further comprising means for powering the wireless receiver (power control) (page 9, paragraph 0102]).

8. Regarding Claim 7, Chang et al disclose a terminal comprising: a controller (output controller 120) (page 5, paragraph [0062]); and a printer module in communication with the controller (output device 140) (page 7, paragraph [0087]), the printer module including (i) a wireless receiver (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]), (ii) means for printing data received from the controller, and (iii) means for printing data received from a remote source via the wireless receiver (Fig. 9A) (page 7, paragraph [0088]).

9. Regarding Claim 8, Chang et al disclose a system for printing tickets at a terminal, the system comprising: a terminal including a printer module having a wireless receiver (output device 140); and a server (output controller) (page 5, paragraph [0060]) for establishing a connection with the printer module via the wireless receiver and for transmitting data for printing by the printer module (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]).

Art Unit: 2626

10. Regarding Claim 11, Chang et al disclose a method of printing tickets at a terminal, the method comprising the steps of: accessing a remote server using a wireless transceiver (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]); providing the remote server with the identity of a terminal having a printer module including a wireless receiver (output manager 308 may manage and maintain wired an wireless communications with output controller (page 5, paragraph [0052]); and requesting the remote server to print a ticket at the identified terminal by wireless transmission of data to the wireless receiver in the printer module (output controller enables the output device 140 to communicate and negotiate services with information apparatus 100) (page 5, paragraph [0062]).

11. Regarding Claim 12, Chang et al disclose a method of retro-fitting a self-service terminal, the method comprising the steps of: identifying a self-service terminal having an item dispensing module (output manager 308 may manage and maintain wired an wireless communications with output controller (page 5, paragraph [0052]); and modifying the item dispensing module by adding wireless receiver capability (output controller enables the output device 140 to communicate and negotiate services with information apparatus 100) (page 5, paragraph [0062]).

12. Regarding Claim 13, Chang et al disclose a method, wherein the item dispensing module comprises a printer module which is modifiable by adding a wireless receiver thereto to enable the printer module to receive and print data from a remote source

✓


Art Unit: 2626

(information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]).

13. Regarding Claim 14, Chang et al disclose a method of fulfilling pre-arranged transactions at a self-service terminal, the method comprising the steps of: receiving by wireless communication from a remote location a request to fulfill a pre-arranged transaction (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]); preparing a dispensable item for fulfilling the request (Fig. 5, S518, print job processing); and dispensing the item to a user to fulfill the request (Fig. 5, S520, generate printouts).

14. Regarding Claim 15, Chang et al disclose an item dispensing module comprising: a dispensing engine (output device 140); a wireless receiver for receiving instructions from a remote source (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]); and a microcontroller for controlling the dispensing engine to dispense items according to the received instructions (output controller) (page 5, paragraph [0062]).

15. Regarding Claim 16, Chang et al disclose an automated teller machine (ATM) comprising: a printer module including (i) a wireless receiver for receiving data from a remote source (information apparatus 100 communicates with output controller 120 through wireless connections) (page 8, paragraph [0099]), and (ii) means coupled to the wireless receiver and for printing the received data onto a document (output controller 120) (page 5, paragraph [0062]); and a dispenser module for dispensing the printed document (Fig. 5, S520, generate printouts).



16. Claim 17 is rejected for the same reason as claim 2.
17. Regarding Claim 18, Chang et al disclose an ATM, wherein the means coupled to the wireless receiver includes a print engine and a controller for controlling the print engine to print the received data onto the document (Fig. 9A).
18. Claim 19 is rejected for the same reason as claim 3.
19. Claim 20 is rejected for the same reason as claim 4.

Claim Rejections - 35 USC § 103

20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

21. Claims 5 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al in view of Chang et al. (US 6,947,995).
22. Regarding Claim 15, Chang et al fail to teach a module, wherein the microcontroller includes means for storing a number of templates, each template representing a predefined image, to avoid having to receive an image each time a ticket is to be printed.

Chang et al teach a module, wherein the microcontroller includes means for storing a number of templates, each template representing a predefined image, to avoid having to receive an image each time a ticket is to be printed (adding templates before sending the output data to the output device 106).

Art Unit: 2626

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teachings of Chang with the teaching of Chang to add a template to the output as a means of further processing the output data)

23. Claim 21 is rejected for the same reason as claim 5.

24. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al in view of Teradaira (US 5,412,761).

25. Regarding Claim 9, Chang et al fail to teach system, wherein the terminal comprises a point of sale terminal.

Teradaira teaches a system, wherein the terminal comprises a point of sale terminal.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teaching of Chang with the teaching of Teradaira to allow wireless printing as a POS terminal.

26. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al in view of Murphy et al. (US 6,354,496).

27. Regarding Claim 10, Chang et al fail to teach a system, wherein the terminal comprises a self-service terminal.

Murphy et al teach a system, wherein the terminal comprises a self-service terminal (self-service scanning station) (col. 5, lines 3-6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teaching of Chang with the teaching of Teradaira to allow wireless printing as a self-service terminal.

✓

Conclusion

28. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Novogrod (US 6,367,693) discloses a system and method for requesting and dispensing negotiable instruments.

Fritz et al. (US 2002/0051184) discloses a method and arrangement in a data communication system.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satwant K. Singh whose telephone number is (571) 272-7468. The examiner can normally be reached on Monday thru Friday 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on (571) 272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Satwant Singh
sks

Satwant K. Singh
Examiner
Art Unit 2626

KA Williams
KIMBERLY WILLIAMS
SUPERVISORY PATENT EXAMINER

✓